

**BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY**

MEETING DATE: 6/18/03

DIVISION: COUNTY ADMINISTRATOR

BULK ITEM: YES

DEPARTMENT: AIRPORTS

AGENDA ITEM WORDING: Approval of URS Purchase Service Order to provide Noise Contour Update, 2002, for the Key West International Airport.

ITEM BACKGROUND: This project will be funded 90% by the Federal Aviation Administration, and 5% each by the Florida Department of Transportation and Passenger Facility Charge Revenue.

PREVIOUS RELEVANT BOCC ACTION: Approval to submit PFC Application # 7, February 19, 2003.

CONTRACT/AGREEMENT CHANGES: New Agreement

STAFF RECOMMENDATION: Approval

TOTAL COST: \$19,800.00

BUDGETED: Yes

COST TO AIRPORT: None

SOURCE OF FUNDS: FAA, FDOT & PFC Revenue

COST TO PFC: \$990.00

COST TO COUNTY: None

REVENUE PRODUCING: No

AMOUNT PER MONTH/YEAR:

APPROVED BY: County Attorney X

OMB/Purchasing N/A

Risk Management N/A

KEY WEST AIRPORT DIRECTOR APPROVAL

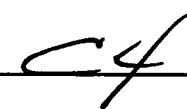
  
Peter J. Horton

DOCUMENTATION: Included X

To Follow

Not Required

AGENDA ITEM #



DISPOSITION: \_\_\_\_\_

/bev  
APB

# MONROE COUNTY BOARD OF COUNTY COMMISSIONERS

## CONTRACT SUMMARY

Contract #

Contract with: URS

Effective Date: Execution

Expiration Date: 200 days

Contract Purpose/Description: Noise Contour Update 2002 . , . . .

Contract Manager: Bevette Moore  
(name)

# 5195  
(Ext.)

Airports - Stop # 5  
(Department/Courier Stop)

for BOCC meeting on: 6/18/03

Agenda Deadline: 6/3/03

## CONTRACT COSTS

Total Dollar Value of Contract: 19,800.00

Current Year Portion: ~ 12,000.00

Budgeted? Yes

Account Codes: 404-63078-530-310-GAKA75

Grant: Yes, FAA & FDOT

County Match: PFC Revenue

## ADDITIONAL COSTS

Estimated Ongoing Costs: N/A  
(not included in dollar value above)

For: .

(eg. maintenance, utilities, janitorial, salaries, etc.)

## CONTRACT REVIEW

	Date In	Changes Needed Yes No	Reviewer	Date Out
Airport Manager	<u>5/27/03</u>	( ) (X)	<u>Peter Horton</u> Peter Horton	<u>5/28/03</u>
Risk Management	<u>   /   /   </u>	( ) ( )	<u>N/A - PaOMB</u> William Grumhaus	<u>   /   /   </u>
O.M.B./Purchasing	<u>   /   /   </u>	( ) ( )	<u>N/A - PaOMB</u> Sheila Barker	<u>   /   /   </u>
County Attorney	<u>   /   /   </u>	( ) ( )	<u>Rob Wolfe</u> Rob Wolfe	<u>12/20/02</u>

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**PURCHASE / SERVICE ORDER**

**FOR**

**MONROE COUNTY**

To: URS

Purchase Service Order No. 02/03-11

Re: PSA Agreement, Dated 1-1-02

Resolution No. \_\_\_\_\_

Project Name: Key West International - Noise Contour Up-date 2002

Description of Services:

(See attached Scope of Services)

Multiple of Direct Salaries \_\_\_\_\_

Lump Sum X


Reimbursable Expense \_\_\_\_\_

Days to Complete 200

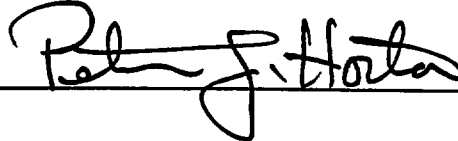
Fee this Service Order \$ 19,800.00

Payment for Services shall be in their entirety as per PSO.

**Prepared by:**

  
Milford A. Reisert

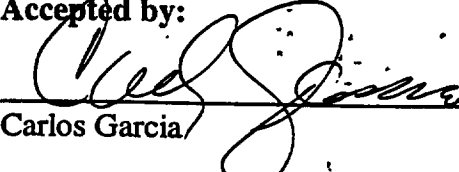
**Recommended by:**

  
\_\_\_\_\_

Date: 12/17/02

Date: \_\_\_\_\_

**Accepted by:**

  
Carlos Garcia

**Approved by:**

\_\_\_\_\_

Date: 12/17/02

Date: \_\_\_\_\_

APPROVED AS TO FORM  
AND LEGAL SUFFICIENCY

BY   
ROBERT N. WOLFE

DATE 12-20-02

**SCOPE OF SERVICES**  
**NOISE CONTOUR UPDATE - 2002**  
**Key West International Airport**  
**NCP Implementation**

Measure 5 of Key West International Airport's, approved Noise Compatibility Program states that in order to monitor compliance with the aviation easement noise level limit in measures 3 and 4, the County of Monroe will update the Key West International Airport noise contours annually for comparison with the Year 2003 *Future Condition Noise Exposure Map, Without Program Implementation*. Measure 3 indicates that the County of Monroe will provide noise insulation in exchange for aviation easements. Measure 4 indicates that the County of Monroe will purchase homes, provide noise insulation, then resell the homes with aviation easements. The Consultant will perform tasks necessary to update the noise contours for the year 2002 and to document compliance with the terms of the aviation easement.

**Task 1                      Collect Aircraft and Airport Operations Data**

Data will be collected on existing aircraft operations for the 12-month period January 1, 2002 through December 31, 2002, to update the Year 1998 Noise Exposure Map contained in the NCP. Data will be obtained from "The Trip.com" that identifies all IFT Flight Plan arrivals into KWIA for the 12-month period January 1, 2002 through December 31, 2002. Runway utilization and location of flight tracks will be validated or updated through consultation with personnel at the Key West Air Traffic Control Tower. The airport will provide copies of FAA Air Traffic Records (FAA form 7230.1) for the 12-month period January 1, 2002 through December 31, 2002, available logs of nighttime aircraft activity, and fueling logs from the FBO. Data to be collected and analyzed will include the following:

- Fleet mix
- Number and type of operations
- Flight tracks and usage.
- Day/night usage
- Current noise abatement procedures
- Ground run-up and maintenance activities
- Airspace and air traffic considerations and operational constraints
- Runway end utilization

**Task 2      Generate 2002 Noise Contours****Task 2.1      Develop 2002 Noise Contours**

Airport and aircraft operations data for 2002, prepared in Task 1, will be compiled and analyzed to determine the operational characteristics for the average annual day. This information will be formatted for input into the FAA's Integrated Noise Model (INM), Version 6.0c. INM standard database aircraft departure and approach profiles will be used to model existing aircraft operations at Key West International Airport. Noise contours will be generated at DNL 60, 65, 70, and 75 dB.

**Task 2.2      Evaluate Noise Impacts of 2000 Noise Contours**

The DNL 60, 65, 70, and 75 dB noise contours for each year, which were developed in Task 2.1, will be superimposed over the GIS land use base map in order to more accurately quantify noise exposure in terms of population, households, and land use. Tables will be developed to describe the noise exposure estimates for 2002, and compare them to the noise exposure estimates for the *Year 2003 Future Condition Noise Exposure Map, Without Program Implementation*. Graphics will be provided to compare the 2000 noise contours with the contours for the *Year 2003 Future Condition Noise Exposure Map, Without Program Implementation*, superimposed over the base mapping and land use.

**Task 3      Document Preparation**

The Noise Contour Update document will describe the existing aircraft operations for the 12-month period January 1, 2002 through December 31, 2002. Graphics will be provided to compare the 2002 noise contours with the contours for the *Year 2003 Future Condition Noise Exposure Map, Without Program Implementation*, superimposed over the base mapping and land use. Tables will be prepared to describe the noise exposure estimates for 2002, and compare them to the noise exposure estimates for the *Year 2003 Future Condition Noise Exposure Map, Without Program Implementation*.

**Task 3.1      Airport Review Document (Version 1)**

Version 1 of the Noise Contour Update document will be prepared and submitted to the airport staff for their review and comment. Five copies will be prepared (2 for the airport staff; 3 for the consultant). The 2002 Noise Contour Map will be printed in color as a 24"x36" exhibit that will be included in a map pocket in the document. Other exhibits within the document will be provided in color as appropriate.

**Task 3.2 Final Document (Version 2)**

Version 2 of the Noise Contour Update document will incorporate the airport staff's comments and will be the final document prepared and submitted to the airport staff for their use and distribution to the Ad-Hoc Committee. Thirty copies will be prepared (25 for the airport staff, BOCC and Ad-Hoc Committee; 5 for the consultant). The 2002 Noise Contour Map will be printed in color as a 24"x36" exhibit that will be included in a map pocket in the document. Other exhibits within the document will be provided in color as appropriate.

**Task 4 Project Management**

The Project Manager will make one trip to Key West to present the final results of Tasks 1 through 3 to the Ad-Hoc Committee on Noise. A 24"x36" color exhibit of the 2002 Noise Contour Map will be mounted on foam core board for presentation at the Ad-Hoc Committee meeting, and left with the airport staff for their use.

This task also involves the coordination and management of the non-technical aspects of the project.

**Cost Estimate - Total**  
**NOISE CONTOUR UPDATE FOR 2002**  
**Key West International Airport**

TASK DESCRIPTION	Project Manager		Airport Planner		GIS Specialist		Document Production		Administrative Assistant		Total Salary		Direct Non-Salary Expenses	Total Lump Sum Cost
	Rate/Hr.	\$130	Rate/Hr.	\$70	Rate/Hr.	\$78	Rate/Hr.	\$64	Rate/Hr.	\$42	Cost	Cost		
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost		
<b>TASK 1 COLLECT AIRCRAFT AND AIRPORT OPERATIONS DATA</b>	2	\$260	20	\$1,400	0	\$0	0	\$0	0	\$0	22	\$1,660	\$6,000	\$7,660
<b>TASK 2 GENERATE 2002 NOISE CONTOURS</b>														
2.1 Develop 2002 Noise Contours	2	\$260	24	\$1,680	0	\$0	0	\$0	0	\$0	26	\$1,940		\$1,940
2.2 Evaluate Noise Impacts of 2002 Noise Contours	2	\$260	8	\$560	16	\$1,254	0	\$0	0	\$0	26	\$2,075		\$2,075
<b>TASK 3 DOCUMENT PREPARATION</b>														
3.1 Airport Review Document (Version 1)	2	\$260	16	\$1,120	6	\$470	6	\$388	4	\$168	34	\$2,405	\$140	\$2,545
3.2 Final Document (Version 2)	2	\$260	8	\$560	4	\$314	6	\$388	2	\$84	22	\$1,604	\$785	\$2,389
<b>TASK 4 PROJECT MANAGEMENT</b>														
	20	\$2,604	0	\$0	0	\$0	0	\$0	4	\$168	24	\$2,772	\$418	\$3,190
<b>COST ESTIMATE</b>	30	\$3,908	76	\$5,320	26	\$2,038	12	\$773	10	\$420	154	\$12,457	\$7,343	\$19,800

**NON-SALARY EXPENSES**

Data Acquisition	\$6,000
24"x36" Color Plots & Board Mounting	\$698
Document Reproduction	\$245
FedEx	\$50
Travel Expenses	\$350
<b>Total Non-Salary Expenses</b>	<b>\$7,343</b>